

## TWH Check

A test procedure on how to conduct a total water hardness test.

### To open the TWH Check dialog panel

1. From the **In-house QC Test** menu bar, click **TWHCheck**;
2. A dialog panel pops-up.

The screenshot displays the 'Quality Control Records' application window. The main interface shows a list of QC checks under the 'In-house QC Check' section. A dialog box titled 'Total Water Hardness Test' is open, providing detailed instructions and a list of glassware for the test.

**Quality Control Records**

In-house QC Check

QC Check Description	Test Date and Time	Value	Unit of Measure	Operator
1 pH - PROCESSED WATER	06/05/2021 5:48 PM	6.50	pH	BETHANY BASCO
2 TDS - RAW WATER	07/02/2021 11:16 AM			
3 pH - RAW WATER	07/02/2021 11:22 AM			
4 TDS - RAW WATER	05/16/2022 2:23 PM			

**Total Water Hardness Test**

Hardness is measured in ppm on calcium carbonate scale. In India, a concentration of 300ppm is allowed in drinking water. In the Philippines, AO-010 dated June 23, 2017 PhGDoc allows up to 300ppm.

We measure hardness by simple technique called **colorimetric method**, it is known as **EDTA Titrimetric Method**.

**Glassware:**

1. Burette (25-ml capacity) with stand
2. Measuring cylinder (200ml)
3. Conical Flask (250ml)
4. Glass funnel
5. Pipette (2ml capacity)
6. Dropper
7. Beaker (250 ml)

The dialog box also includes an illustration of the glassware: a burette on a stand, a measuring cylinder, a conical flask, and a beaker.

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